

**TERMINAL DISCLAIMER TO OBVIATE A PROVISIONAL DOUBLE PATENTING
REJECTION OVER A PENDING "REFERENCE" APPLICATION**Docket Number (Optional)
A6378C1/T45510

In re Application of: Karthik Janakiraman et al.

Application No.: 10/674,569

Filed: September 29, 2003

For: GAS DISTRIBUTION SHOWERHEAD

The owner*, Applied Materials, Inc., of 100% percent interest in the instant application hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the instant application which would extend beyond the expiration date of the full statutory term of any patent granted on pending reference Application Number 10/412,446, filed on April 1, 2003, as such term is defined in 35 U.S.C. 154 and 173, and as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on pending reference application. The owner hereby agrees that any patent so granted on the instant application shall be enforceable only for and during such period that it and any patent granted on the reference application are commonly owned. This agreement runs with any patent granted on the instant application and is binding upon the grantee, its successors or assigns.

In making the above disclaimer, the owner does not disclaim the terminal part of any patent granted on the instant application that would extend to the expiration date of the full statutory term as defined in 35 U.S.C. 154 and 173 of any patent granted on said reference application, "as the term of any patent granted on said reference application may be shortened by any terminal disclaimer filed prior to the grant of any patent on the pending reference application," in the event that: any such patent: granted on the pending reference application: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid by a court of competent jurisdiction, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321, has all claims canceled by a reexamination certificate, is reissued, or is in any manner terminated prior to the expiration of its full statutory term as shortened by any terminal disclaimer filed prior to its grant.

Check either box 1 or 2 below, if appropriate.

1. ☐ For submissions on behalf of a business/organization (e.g., corporation, partnership, university, government agency, etc.), the undersigned is empowered to act on behalf of the business/organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2. ☒ The undersigned is an attorney or agent of record. Reg. No. 39,496


SignatureJanuary 27, 2006
DateKent J. Tobin, Reg. No. 39,496
Typed or printed name650-326-2400
Telephone Number

- ☒ Terminal disclaimer fee under 37 CFR 1.20(d) is included.

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*Statement under 37 CFR 3.73(b) is required if terminal disclaimer is signed by the assignee (owner).
Form PTO/SB/96 may be used for making this certification. See MPEP § 324.

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Washington, D.C. 20231

FEBRUARY 25, 1999

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APPLIED MATERIALS, INC.
ROBERT W. MULCAHY
PATENT COUNSEL
P.O. BOX 450-A
SANTA CLARA, CA 95052



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UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/27/1998

REEL/FRAME: 9565/0288
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
METZNER, CRAIG R.

DOC DATE: 10/27/1998

ASSIGNOR:
SAHIN, TURGUT

DOC DATE: 10/27/1998

ASSIGNOR:
REDINBO, GREGORY F.

DOC DATE: 10/27/1998

ASSIGNOR:
NARWANKAR, PRAVIN K.

DOC DATE: 10/27/1998

ASSIGNOR:
LIU, PATRICIA M.

DOC DATE: 10/27/1998

ASSIGNEE:
APPLIED MATERIALS, INC.
P.O. BOX 450A
SANTA CLARA, CALIFORNIA 95052

COMPUTER ENTERED
MAR 15 1999

9565/0288 PAGE 2

SERIAL NUMBER: 09179921
PATENT NUMBER:

FILING DATE: 10/27/1998
ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



11-10-1998

U.S. Department of Commerce
Patent and Trademark Office

100875092

FORM PTO-1595
(Rev. 6-92)

OMB No. 0651-0021 (exp. 4/94)

To the Honorable Commissioner of Patents and

Document or copy thereof.

1. Name of conveying party(ies):

	Date
CRAIG R. METZNER	10/27/1998
TURGUT SAHIN	10/27/1998
GREGORY F. REDINBO	10/27/1998
PRAVIN K. NARWANKAR	10/27/1998
PATRICIA M. LIU	10/27/1998

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other	

Execution Date: _____

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.Internal Address: P.O. Box 450-A

Street Address: _____

City: Santa Clara State: CA Zip: 95052Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: 10/27/1998 (Date of Filing)

A. Patent Application No.(s)

09/179921

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patent CounselInternal Address: APPLIED MATERIALS, INC.Street Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 95052

6. Total number of applications and patents involved: _____

7. Total fee (37 C.F.R. 3.41) _____ \$ 40.00☐ Enclosed☒ Authorized to be charged to deposit account01-1651

8. Deposit account number:

01-1651

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Name of Person Signing: ROBERT W. MULCAHY Reg No. 25,436

Signature: _____

Date: 10/27/98Total number of pages including cover sheet, attachments and document: 3

11/06/1998 DNGUYEN 00000465 011651 09179921

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

ASSIGNMENT FOR APPLICATION FOR PATENT**WHEREAS:**

Names and Addresses
of Inventors:

1)	CRAIG R. METZNER 618 SADDLEBACK TERRACE FREMONT, CA 94536	2)	TURGUT SAHIN 11110 CHADWICK PLACE CUPERTINO, CA 95014
3)	GREGORY F. REDINBO 1904 HARRIS AVENUE SAN JOSE, CA 95124	4)	PRAVIN K. NARWANKAR 392 WAVERLY STREET SUNNYVALE, CA 94086
5)	PATRICIA M. LIU 18813 BELLGROVE CIRCLE SARATOGA, CA 95070	6)	

(hereinafter referred to as Assignors), have invented a certain invention entitled:

"DEPOSITION REACTOR HAVING VAPORIZING, MIXING AND CLEANING CAPABILITIES"

for which application for Letters Patent in the United States was filed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications,

declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) 10-27, 1998


CRAIG R. METZNER

2) Oct 27, 1998


TURGUT SAHIN

3) Oct 27, 1998


GREGORY F. REDINBO

4) Oct 27, 1998


PRAVIN K. NARWANKAR

5) 10-27, 1998


PATRICIA M. LIU

**COPY**

6378/11

UNITED STATES PATENT AND TRADEMARK OFFICEUNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 06, 2004

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MAY 13 2004

APPLIED MATERIALS, INC.
PATENT COUNSEL
P.O. BOX 450A, M/S 2061
LEGAL AFFAIRS DEPARTMENT
SANTA CLARA, CA 95052**UNITED STATES PATENT AND TRADEMARK OFFICE
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ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 09/29/2003

REEL/FRAME: 014574/0777
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

JANAKIRAMAN, KARTHIK

DOC DATE: 09/26/2003

ASSIGNOR:

INGLE, NITIN

DOC DATE: 09/26/2003

ASSIGNOR:

YUAN, ZHENG

DOC DATE: 09/25/2003

ASSIGNOR:

GIANOULAKIS, STEVEN

DOC DATE: 09/26/2003

ASSIGNEE:

APPLIED MATERIALS, INC.
P.O. BOX 450A
LEGAL AFFAIRS DEPARTMENT
SANTA CLARA, CALIFORNIA 95052**CC: DOCKETING**

014574/0777 PAGE 2

SERIAL NUMBER: 10674569
PATENT NUMBER:

FILING DATE: 09/29/2003
ISSUE DATE:

RNICOL, SUPERVISOR
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

To the Honorable Commissioner

Original documents ☒ copy thereof

1. Name of conveying party(ies):

Karthik Janakiraman
Nitin Ingle
Zheng Yuan
Steven Gianoulakis

Execution Date

9-26-03
9-26-03
9-25-03
9-26-03

2. Name and address of receiving party(ies)

Name: Applied Materials, Inc.

Internal Address: Legal Affairs Department

Street Address: P.O. Box 450A

City: Santa Clara State: CA ZIP: 95052

Additional names and addresses attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:

Execution Date: SEE ABOVE

4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is: Sept. 29, 2003

A. Patent Application No(s):

B. Patent No(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name:

Patent Counsel
APPLIED MATERIALS, INC.
Legal Affairs Department
P.O. Box 450A, M/S 2061
Santa Clara, California 950526. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$40.00☐ Enclosed ☒ Charge Fees to Deposit Account☒ Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.

Fee authorized on Fee Transmittal - Form PTO/SB/17

8. Deposit account number: 50-1074

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9. Statement and signature.

*To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true of copy of the original document.*Robert W. Mulcahy
Name of Person Signing

Signature

Sept. 29, 2003
Date

Atty Reg. No. 25,436

Total number of pages including cover sheet, attachments and document: 310. Change Correspondence Address to that of Part 5? ☒ Yes ☐ No

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Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses
of Inventors:

1)	Karthik Janakiraman 575 Marble Arch Avenue San Jose, CA 95136 United States	2)	Nitin Ingle 999 W. Hamilton Ave., #97 Campbell, CA 95008 United States
3)	Zheng Yuan 42024 Benbow Drive Fremont, CA 94539 United States	4)	Steven Gianoulakis 4242 Fairlands Drive Pleasanton, CA 95054 United States

(hereinafter referred to as Assignors), have invented a certain invention entitled:

GAS DISTRIBUTION SHOWERHEAD

for which application for Letters Patent in the United States was filed on , under Application No. , executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

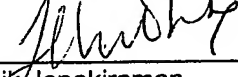
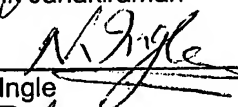
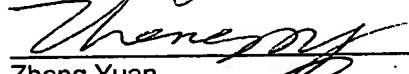
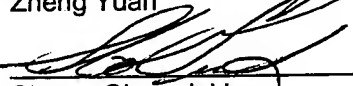
2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court

actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignor.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	<u>9/26/03</u>	, 2003	 Karthik Janakiraman
2)	<u>9/26/03</u>	, 2003	 Nitin Ingle
3)	<u>9/25/03</u>	, 2003	 Zheng Yuan
4)	<u>9/26/03</u>	, 2003	 Steven Gianoulakis

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